

201810 Hurricane Michael Data Sources

Geospatial Information and Remotely Sensed Imagery Products

October-22-2018

Catalog Info

Hazards Data Distribution System (HDDS)

Select Event: '201810_Hurricane_Michael' -> click on '+' and then 'Search'

Download Shapefiles for image footprints

https://hddsexplorer.usgs.gov/data/list/disaster/201810_Hurricane_Michael/shapefiles/index



More information about HDDS: <http://hdds.usgs.gov/hazards-data-distribution-system-hdds>

HDDS Emergency Operations - Collection Management Tool (area of interest for disaster imagery collections) *Request new disaster related imagery here.*

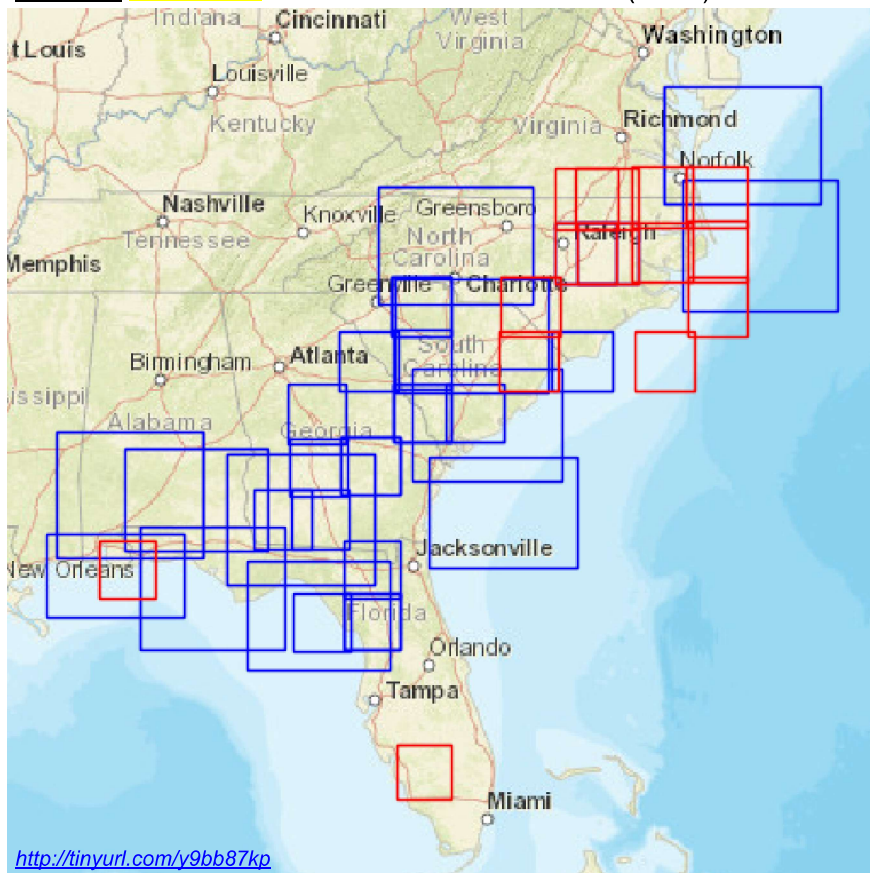
<http://cmt.usgs.gov/>

NOTE: We have changed the method for symbology of the image footprints.

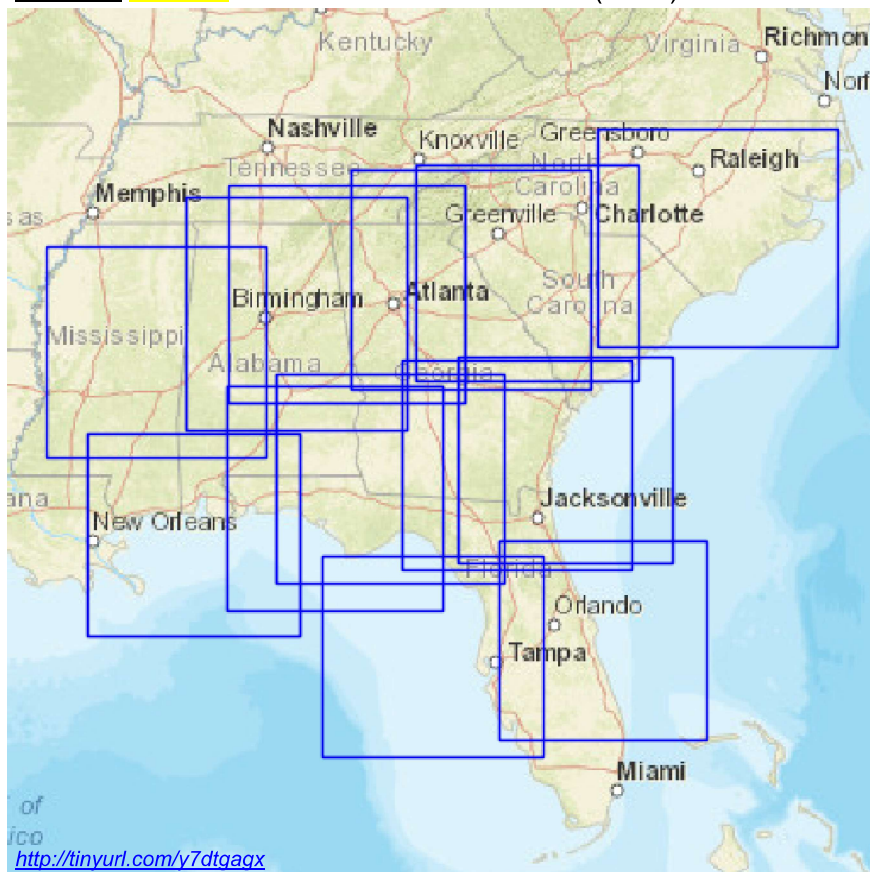
We now highlight new image footprints as **red** or **blue**, where red reflects the newest footprints from the last 48 hours and **blue** reflects footprints from the last 7 days.

-  New footprints from the past 48 hours
-  Footprints from the last 7 days

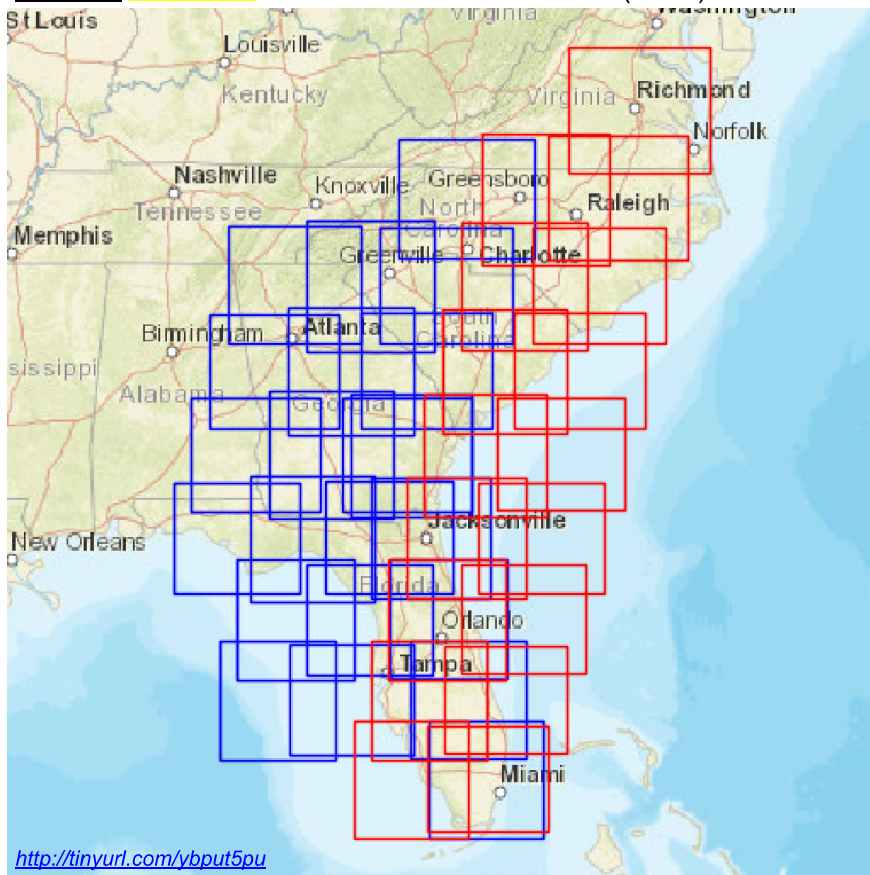
Platform: **SENTINEL** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: **UKDMC** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: **LANDSAT** scenes from the **last 48 hours** (in red) and from the **last 7 days** (in blue)



Platform: **AERIAL** scenes from the **last 48 hours** (in red) and from the **last 7 days** (in blue)



Platform: **REPORTS** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



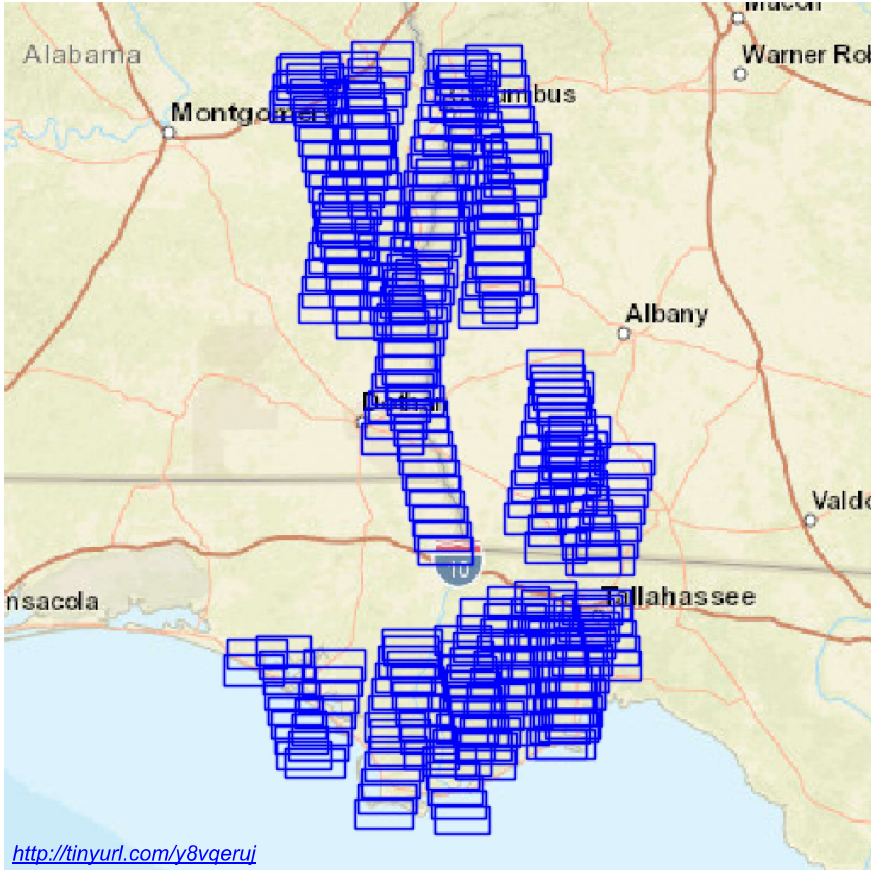
HDDS Restricted

If you have not registered on either EarthExplorer or HDDS, click the register button in the top right corner of the screen and go thru the registration process. Once registered, you will have access to EarthExplorer and HDDS download capabilities. The first time you attempt to download restricted imagery, you will need to fill out an access request form for that event. Click on 'Access' (upper right of HDDS screen), then select 'To request access to restricted data click here'. Select event from menu. Once granted access, you can download restricted imagery. (note: in most cases the restricted area contains licensed imagery, not all requests can be granted.)

Request access:

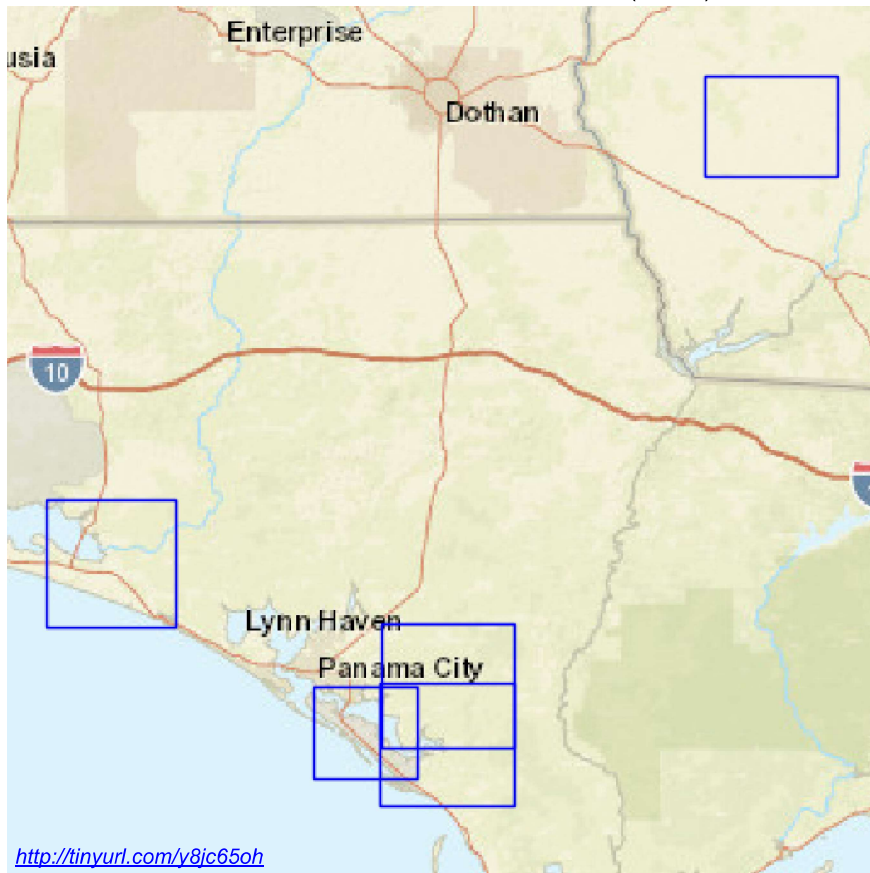
https://hddsexplorer.usgs.gov/access/request?event=201810_Hurricane_Michael

Platform: **PLANET** scenes from the last 48 hours (in red) and from the last 7 days (in blue)

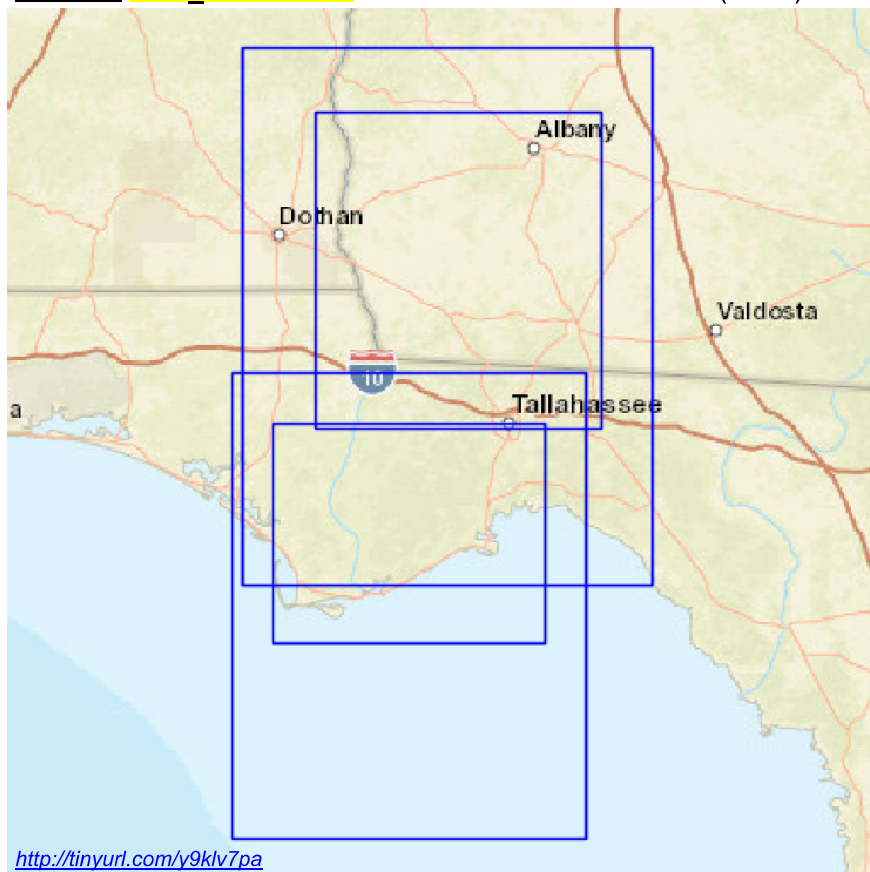


<http://tinyurl.com/y8vqeruj>

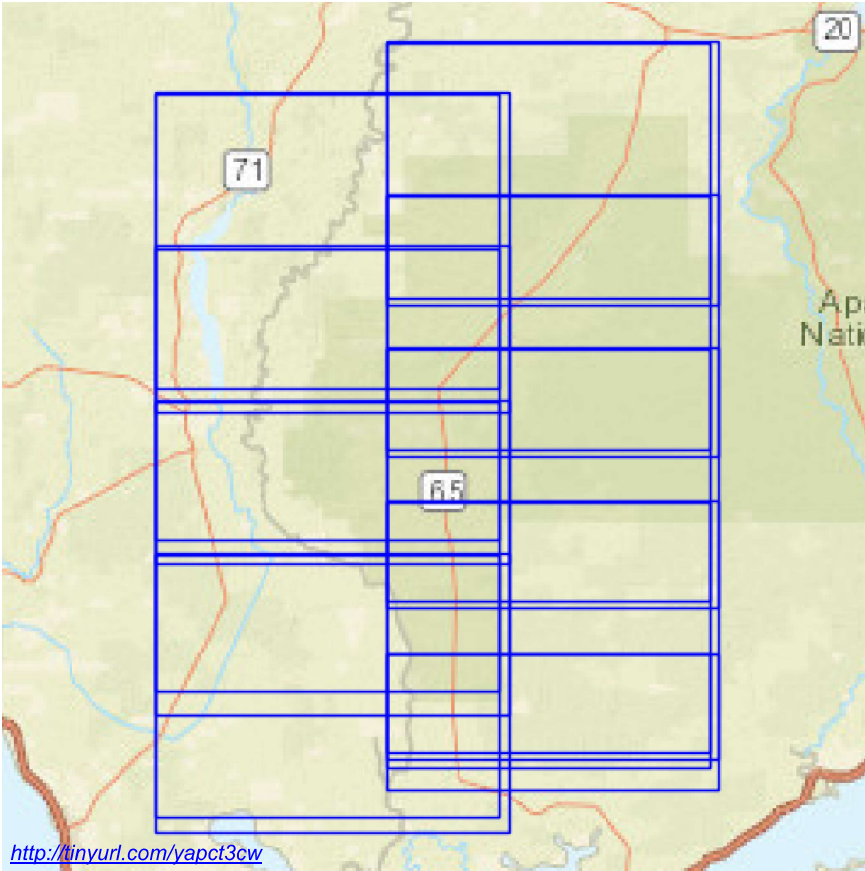
Platform: **PLEIADES** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: **MAP_PRODUCTS** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: **WORLDVIEW** scenes from the last 48 hours (in red) and from the last 7 days (in blue)

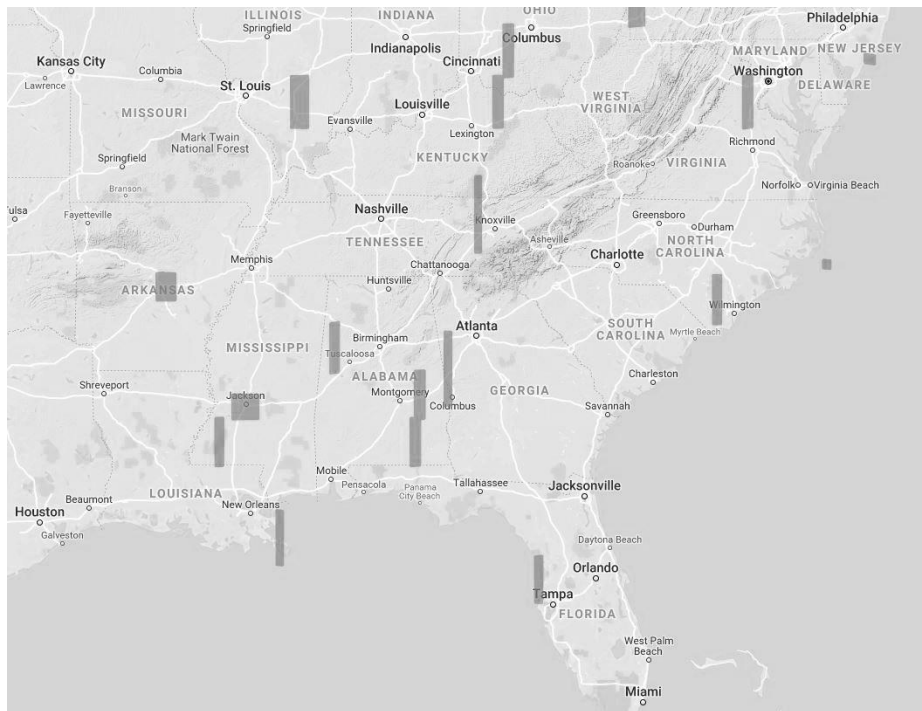


End HDDS

Digital Globe Imagery

Digital Globe imagery is available orthorectified in the NGA funded EnhancedView Web Service. Users with .gov or .mil emails can self-register. <https://ewwhs.digitalglobe.com/myDigitalGlobe/>

Last 72 Hours *OLD- DG viewer is having issues and is out of date, but updated data can still be accessed from the site*



Eagle Vision

<http://dev.evr2est.us/scenes/table> and <http://evr2est.us/>

Below are sample search results. Visit the site to see the whole list of updated available imagery.

PIHR_PMS_0_5_20181015_EV4_ORTHO_TYNDALL_AFB_FL_US



Site: Eagle Vision 4
Serial Number: 150Oct1812378
License: Disaster Relief
Mission: Tyndall_AFB
POST_HURRICANE_MICHAEL
FL US

Platform: Pleiades-1
Image Type: Multispectral
GSD: 0.5 m
Acquisition Date: 15Oct18 - 1139
America/Chicago

Download JP2000

Download MrSID

Download KML

PHR_PMS_0_5M_20181014_EV6_ORTHO_Walton_US_70



Site: Eagle Vision 6
Serial Number: 16Oct1812386
License: Disaster Relief
Mission: Walton
POST_HURRICANE_MICHAEL
FL US

Platform: Pleiades-1
Image Type: Multispectral
GSD: 0.5 m
Acquisition Date: 14Oct18 - 1147
America/Chicago

Download JP2000

Download MrSID

Download KML

PHR_PMS_0_5M_20181014_EV6_ORTHO_Panama_City_US_67



Site Eagle Vision 6
Serial Number 14Oct1812377
License Disaster Relief
Mission Panama_City
POST_HURRICANE_MICHAEL
FL US

Platform Pleiades-1
Image Type Multispectral
GSD 0.5 m
Acquisition Date 14Oct18 - 1146
America/Chicago

[Download JP2000](#)[Download MrSID](#)[Download KML](#)

PHR_PMS_0_5M_20181014_EV6_ORTHO_ChIPLEY_US_66



Site Eagle Vision 6
Serial Number 14Oct1812371
License Disaster Relief
Mission Chipley
POST_HURRICANE_MICHAEL
FL US

Platform Pleiades-1
Image Type Multispectral
GSD 0.5 m
Acquisition Date 14Oct18 - 1146
America/Chicago

[Download JP2000](#)[Download MrSID](#)[Download KML](#)

PHR_PMS_0_5M_20181014_EV6_ORTHO_Marianna_US_65



Site Eagle Vision 6
Serial Number 14Oct1812375
License Disaster Relief
Mission MARIANNA
POST_HURRICANE_MICHAEL
FL US

Platform Pleiades-1
Image Type Multispectral
GSD 0.5 m
Acquisition Date 14Oct18 - 1146
America/Chicago

[Download JP2000](#)[Download MrSID](#)[Download KML](#)

PHR_PMS_0_5M_20181014_EV6_ORTHO_Seminole_US_64



Site Eagle Vision 6
Serial Number 14Oct1812376
License Disaster Relief
Mission Seminole
POST_HURRICANE_MICHAEL
GA US

Platform Pleiades-1
Image Type Multispectral
GSD 0.5 m
Acquisition Date 14Oct18 - 1146
America/Chicago

[Download JP2000](#)[Download MrSID](#)[Download KML](#)

PHR_PMS_0_5M_20181014_EV6_ORTHO_Colquitt_US_63

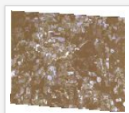


Site Eagle Vision 6
Serial Number 16Oct1812387
License Disaster Relief
Mission Colquitt
POST_HURRICANE_MICHAEL
GA US

Platform Pleiades-1
Image Type Multispectral
GSD 0.5 m
Acquisition Date 14Oct18 - 1146
America/Chicago

[Download JP2000](#)[Download MrSID](#)[Download KML](#)

PHR_PMS_0_5M_20181014_EV6_ORTHO_Blakely_US_62



Site Eagle Vision 6
Serial Number 14Oct1812370
License Disaster Relief
Mission Blakely
POST_HURRICANE_MICHAEL
GA US

Platform Pleiades-1
Image Type Multispectral
GSD 0.5 m
Acquisition Date 14Oct18 - 1146
America/Chicago

[Download JP2000](#)[Download MrSID](#)[Download KML](#)

Additional map services and journals:

[NEW] NICB GIC GraySky 2018 Michael Nadir Imagery

More Tiles Added:

Webmap:

<https://geoplatform.maps.arcgis.com/home/item.html?id=b523236edaf145c49c70cc1874d38721>

Gallery:

<https://geoplatform.maps.arcgis.com/apps/MinimalGallery/index.html?appid=1c05cb9787864552b797c1d7c306034f>

Swipe App:

<https://geoplatform.maps.arcgis.com/apps/StorytellingSwipe/index.html?appid=18bab2f5a1dd45739736e6ae24de31d8>

<https://maps.geointel.org/app/gic-public/>

<https://maps.geointel.org/app/michael/>

publicly accessible web map:

<https://geoplatform.maps.arcgis.com/home/item.html?id=b523236edaf145c49c70cc1874d38721>

And in this app gallery:

<https://geoplatform.maps.arcgis.com/apps/MinimalGallery/index.html?appid=1c05cb9787864552b797c1d7c306034f>

public tile services are being generated from this data.

- Chattahoochee to Thomasville
<https://geoplatform.maps.arcgis.com/home/item.html?id=0633f49348d74d6aa4b5d8ca124e7373>
- Mexico Beach to Port St Joe
<https://geoplatform.maps.arcgis.com/home/item.html?id=7b05b7709e224a97981628f35ef83fed>
- Orthophoto image of Donalsonville to Moultrie -
<https://geoplatform.maps.arcgis.com/home/item.html?id=324adadd746247628741b9b46ea79b56>
- Apalachicola to Panacea
<https://geoplatform.maps.arcgis.com/home/item.html?id=ae7b082019094e7b945bfa03a3d4e015>
- Pensacola to Panama City -
<https://geoplatform.maps.arcgis.com/home/item.html?id=96232b9b743746578622d9f90aac2dca>
- South Pensacola -
<https://geoplatform.maps.arcgis.com/home/item.html?id=a2647f42402f42e5ba473a7af40b0feb>
- West Tallahassee -
<https://geoplatform.maps.arcgis.com/home/item.html?id=8cae25ec13a840b283b1e349c75059f1>
- Perry to Ingles
<https://geoplatform.maps.arcgis.com/home/item.html?id=eda4377ba3894101bf2ff83338077d0a>
- East of Panama City
<https://geoplatform.maps.arcgis.com/home/item.html?id=13435d0c0133405e873fa2d541388fdd>
- Pensacola to Panama City
<https://geoplatform.maps.arcgis.com/home/item.html?id=3f67ef5795364183b6ba5cae86015714>
- Laguna Beach To Lower Grand Lagoon
<https://geoplatform.maps.arcgis.com/home/item.html?id=2e2353f6dbf24103b87f57d3bacacb9f>

Google Crisis Map for Michael

Please see the latest version of the Google Crisis Map for Hurricane Michael:

<http://google.org/crisismap/google.com/2018-michael>

Data is provided for public use in support of Crisis Response missions. "Google, Inc. 2018" should be cited for attribution purposes.

Web Map Tile Paths:

https://storage.googleapis.com/ga_moultrie_20181014/{Z}/{X}/{Y}

https://storage.googleapis.com/ga_albany_hurricane_20181013/{Z}/{X}/{Y}

https://storage.googleapis.com/fl_apalachicola_20181013/{Z}/{X}/{Y}

https://storage.googleapis.com/fl_tallahassee_2_20181012/{Z}/{X}/{Y}

https://storage.googleapis.com/fl_panamacity_20181012/{Z}/{X}/{Y}

https://storage.googleapis.com/ga_bainbridge_20181014/{Z}/{X}/{Y}

UAS / drone images

The Hangar 360 panoramic photos may be especially helpful for briefing teams if you can get this up on a big screen before they head out. Source: Justin Adams (jadams@crasar.org)

<https://www.arcgis.com/home/webmap/viewer.html?webmap=d6076b5dd7074072aa9a38314364fee5>

Mexico Beach:

https://tiles.arcgis.com/tiles/36ruPEqsYhRhaWdn/arcgis/rest/services/2018_Michael_Mexico_Beach_B1_Orthomosaic/MapServer

https://tiles.arcgis.com/tiles/36ruPEqsYhRhaWdn/arcgis/rest/services/2018_Michael_Mexico_Beach_C2_Orthomosaic/MapServer

https://tiles.arcgis.com/tiles/36ruPEqsYhRhaWdn/arcgis/rest/services/2018_Michael_Mexico_Beach_E2_Orthomosaic/MapServer

USGS Flood Event Viewer

<https://stn.wim.usgs.gov/fev/#Michael2018>

FEMA US&R Data

NOTE: Change to how data is presented in the map portion of the dashboard. At small scale (zoomed out) the data is a heat map to show coverage area. At large scale (zoomed in) the data switches to the point view. This is because there are now around 30,000 points and the system simply can't draw all of them. There may be additional optimizations in how the data is viewed in the near future.

This data contains the data produced by the US&R teams under federal missions. It does not include the Florida US&R teams that are operating as state assets.

Public Feature Service:

<http://fema.maps.arcgis.com/home/item.html?id=4d7f2b52371b43609647ed2447642626>

Public Web Map:

<http://fema.maps.arcgis.com/home/item.html?id=fddccae6aebf49aebfedbc96ab725fb4>

Public Dashboard:

<http://fema.maps.arcgis.com/apps/opstdashboard/index.html#/bd137a8e6c2644b790ca4f37cd84a4d3>

SW Georgia High-Res imagery using Digital Globe

<http://fema.maps.arcgis.com/home/content.html?start=1&view=table&sortOrder=desc&sortField=modified#content>

NASA JPL ARIA DPM products

<https://maps.disasters.nasa.gov/arcgis/home/item.html?id=b0ebad883d854bf0bb7a5fdefcebd46d>

FEMA USAR and IAFC / SUSAR

SAR Field Data Collection

<https://www.arcgis.com/apps/MapSeries/index.html?appid=61952ebf539f4bf1941a9e24e0bc277b&entry=2>

- FEMA (w/ human interaction redacted) **29,350 waypoints**

Dashboard:

<http://fema.maps.arcgis.com/apps/opstdashboard/index.html#/bd137a8e6c2644b790ca4f37cd84a4d3>

- SUSAR (all waypoints) **35,802 waypoints** and counting, LATF2, NOLA2, FLTF4, FLTF5 are currently actively adding points.

Dashboard:

<https://iafc.maps.arcgis.com/apps/opstdashboard/index.html#/e904e84ffff344aeb4dfc2599d944afd>

Remote Sensing

<https://www.arcgis.com/apps/MapSeries/index.html?appid=61952ebf539f4bf1941a9e24e0bc277b&entry=6>

- Justin Adams has posted more drone aerial imagery and Hangar360 panoramic images

NOAA Hx Michael Emergency Response Imagery Available 10/11/2018

Data were collected along the coast from Mobile Bay to St. George Island, FL and over Panama City, FL.

Viewer:

<https://storms.ngs.noaa.gov/storms/michael/index.html#8/30.209/-85.611>

WMTS:

<https://storms.ngs.noaa.gov/storms/tilesj/services/tilesserver.php/wmts>

Mosaic TIFF:

https://ngsstormviewer.blob.core.windows.net/downloads/20181011a_RGB.tar

Raw JPEGs (may be suitable for SFM along the outer coast):

https://ngsstormviewer.blob.core.windows.net/downloads/20181011a_jpgs.tar

NASA Disasters GIS Portal:

<https://maps.disasters.nasa.gov/arcgis/apps/PublicGallery/index.html?appid=026094d65f784548a0d46e0daeb8445f>

FEMA Hurricane Journal and Map Services:

<https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>

FEMA GIS Portal:

<https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>

FEMA SFTP Public Data Site – Hurricane Michael:

<https://disasters.geoplatform.gov/publicdata/NationalDisasters/HurricaneMichael/>

NHC GIS Data:

<https://www.nhc.noaa.gov/gis/>

Send comments, additions, and corrections to:

Ran Goldblatt and Brooke Hatcher

Federal Emergency Management Agency (FEMA) (New Light Technologies, Inc. (CTR))

ran.goldblatt@associates.fema.dhs.gov

brooke.hatcher@associates.fema.dhs.gov

If you would like to be on the distribution list, send me an email